MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, SYRIA

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

DECEMBER, 1938

J. A. BROWN, DIRECTOR

Printed at the American Press
Beirut, Syria

DECEMBER 1938
METEOROLOGICAL REGISTER

Date	Barometer reduced to oC Sea level and 45 Latitude 700 mm. + ...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	66.7	65.5	65.7	66.0	19.4	14.8	17.8	18.3	16.6	17.6
2	4.4	2.3	2.1	2.9	20.0	16.1	16.6	19.0	16.6	17.4
3	59.1	59.6	1.7	0.4	22.9	16.4	19.9	21.2	18.8	20.0
4	62.6	62.0	2.8	2.5	20.0	15.0	18.6	19.4	17.4	18.5
5	2.9	1.5	1.3	1.9	19.0	14.7	17.6	18.8	15.7	17.4
6	59.7	58.4	58.7	58.9	18.9	10.6	17.3	18.8	14.7	16.9
7	8.0	8.1	8.7	8.3	15.1	11.1	11.3	12.4	13.4	12.4
8	60.0	9.2	9.9	9.7	16.7	13.4	15.2	16.6	15.1	15.6
9	59.7	9.1	9.8	9.5	16.1	13.3	13.8	15.4	13.9	14.4
10	61.9	62.1	63.1	62.4	20.6	13.3	15.9	17.4	14.9	16.1
11	65.0	64.6	65.4	65.0	18.3	13.1	15.8	17.6	15.5	16.3
12	4.7	3.3	3.6	3.9	18.3	13.1	15.7	17.4	14.9	16.0
13	2.5	1.3	1.3	1.6	16.9	12.9	13.8	16.8	13.9	14.8
14	1.3	0.5	1.2	1.0	17.8	11.1	14.9	15.3	13.8	14.7
15	2.4	1.8	2.9	2.4	17.6	10.2	13.3	14.7	12.1	13.4
16	63.2	62.1	62.5	62.6	15.7	12.1	12.2	14.9	12.7	13.3
17	2.3	0.5	1.4	1.4	17.3	12.5	14.4	16.8	14.8	15.3
18	3.9	4.0	5.9	4.6	17.6	13.2	14.4	17.2	15.7	15.8
19	6.1	3.4	1.7	3.7	17.9	14.6	14.9	17.6	15.9	16.1
20	59.6	0.2	1.4	0.4	20.3	13.6	17.1	17.3	16.1	16.8
21	63.2	62.8	63.1	63.0	17.8	13.1	16.1	17.7	14.9	16.2
22	1.8	2.0	2.4	2.1	17.9	12.2	15.4	17.6	15.5	16.2
23	1.8	2.0	3.2	2.3	17.9	12.2	13.9	17.2	14.4	15.2
24	5.5	4.6	4.5	4.9	17.5	13.9	14.7	17.2	15.5	15.8
25	3.9	2.4	3.0	3.1	18.3	13.3	15.6	18.0	15.5	16.4
26	63.0	62.4	62.7	62.7	18.2	13.9	16.5	18.1	15.6	16.7
27	3.5	1.4	1.6	2.2	17.9	12.7	16.1	17.4	15.2	16.2
28	0.8	59.0	56.5	58.8	17.2	13.1	14.7	16.2	15.5	15.5
29	57.3	6.5	9.2	7.7	18.3	12.5	13.8	15.3	15.6	14.9
30	60.3	9.2	9 0	9.5	17.2	11.7	16.1	16.7	13.1	15.3
31	55.9	3.1	4.3	4.4	16.6	10.8	14.5	12.2	15.6	14.1
	762.03	761.13	761.63	761.61	18.10	13.05	15.42	16.99	15.13	15.85

Barometer, range for month 753.1 mm.—766.7 mm.
,, 62-yr. average for month 763.25 mm.
Thermometer, range for month 10.2 C.—22.9° C.
,, 62-yr. average for month 15.91° C.
Rain, total for month 113.952 mm.
,, , 62-yr. average for month 186.94 mm.
,, , total, from Sept. 1st 489504 mm.

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Date	Elasticity of Vapor mm.				Relative Moisture per cent.				Sun. hrs.	Wind per day	Rain mm.
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		Kms.	
1	11.2	11.6	11.0	11.3	74	75	78	76	8.8	285.2	
2	10.2	12.2	11.6	11.3	73	75	82	77	1.6	194.5	
3	12.7	14.6	12.5	13.3	75	78	78	76	6.6	431.6	
4	11.9	12.6	12.2	12.2	76	75	82	78	3.9	275.0	0.254
5	10.3	11.8	10.7	10.9	70	73	81	75	8.9	326.0	
6	11.1	11.1	11.4	11.2	76	69	92	79	4.1	424.0	9.900
7	9.0	10.0	9.2	9.4	90	94	79	88	0.8	427.0	18.034
8	10.2	10.2	9.7	10.0	80	73	76	76	0.1	373.4	1.524
9	10.8	10.8	10.4	10.7	92	83	87	87	0.1	276.0	9.660
10	9.6	11.1	10.3	10.3	72	75	81	76	9.3	289.0	
11	11.9	11.0	9.3	10.5	90	74	71	78	3.9	242.5	4.826
12	8.8	10.3	9.6	9.6	66	70	76	71	2.2	199.5	
13	8.8	9.4	8.7	9.0	74	66	74	71	5.1	269.4	0.254
14	10.3	9.1	8.9	9.4	81	70	75	75	5.7	420.0	
15	8.6	9.1	7.9	8.6	75	74	75	75	6.5	289.2	4.699
16	6.9	8.4	8.4	7.9	65	66	76	69	1.7	303.0	
17	9.2	10.1	10.2	9.8	75	71	82	76	5.6	297.0	
18	9.0	10.1	10.7	9.9	73	69	81	74	8.2	373.0	1.016
19	9.6	11.0	10.3	10.3	76	74	77	76	3.5	400.0	0.254
20	7.9	7.4	9.0	8.1	55	51	66	57	3.2	351.5	1.016
21	9.7	12.1	10.9	10.9	72	79	86	79	8.6	209.0	
22	8.7	10.9	9.0	9.5	67	72	68	69	9.0	358.0	
23	8.0	12.0	10.0	10.0	68	82	82	67	5.9	274.0	
24	9.1	10.5	9.3	9.6	73	72	71	72	8.7	298.5	
25	11.0	11.1	10.0	10.7	83	72	76	77	7.4	246.0	
26	10.0	11.0	9.8	10.3	72	72	75	73	8.9	320.0	
27	10.4	10.8	10.2	10.5	77	73	80	77	5.7	371.5	0.762
28	9.1	9.6	10.8	9.8	74	71	84	76	0.0	632.5	12.700
29	11.4	12.4	10.1	11.3	94	95	77	89	2.1	516.0	38.104
30	9.7	8.9	8.1	8.9	72	63	72	69	5.7	371.5	
31	7.7	9.7	9.3	8.9	63	92	71	75	5.4	964.0	10.922
	9.77	10.68	9.99	10.13	74.0	70.9	77.8	75.3	5.07	354.22	3.675

Height of Barometer above sea level: 33.7 meters.
„ „ Thermometers above ground:
Dry and wet 1.55 m.: Max. 1.75 m.: Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
62-year averages are for period, 1875-1936

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	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	6ci	0	0	2.0	2se	3n	1n	calm	lunar halo
2	10cuci	7ci	10ci	9.0	2s	2n	1n	„	
3	3ci	2ci	10ci	2.0	2e	4sw	3w	slight	
4	10cuni	8ci	9cuni	9.0	3sw	2sw	2w	„	
5	0	0	2ci	0.7	2s	2w	3w	„	mist on sea a.m.
6	9cuni	5cuci	10ni	8.0	4s	3s	3w	slight	
7	10ni	10ni	2ci	7.0	3s	4s	4se	„	
8	10ni	10ni	10ni	10.0	4s	3s	3s	mod.	
9	10ni	10ni	2ci	7.3	4w	2s	2s	slight	
10	2ci	3cu	2cu	2.3	2se	3w	3w	„	
11	7cu	9cuni	2ci	6.0	2s	2nw	2n	slight	
12	8ci	10ni	10ni	9.3	1se	2s	3s	„	
13	7cuci	2cu	0	3.0	1se	3nw	2n	„	
14	4cu	10ni	2cu	5.3	2s	4w	2w	„	
15	6cuci	2ci	4ci	4.0	3n	2n	2n	„	
16	10cuci	10ni	0	6.7	3se	2nw	2n	calm	
17	2ci	10nici	10ni	7.3	2s	2s	3w	„	
18	3ci	2ci	5cicu	3.3	3s	4w	2w	„	
19	10ci	9cuci	10cini	9.7	2se	4n	4n	„	
20	10ni	10ni	0	6.7	2s	4e	3e	slight	
21	0	1cu	0	0.3	2se	2w	2w	slight	
22	0	0	0	0.0	1se	2n	3n	„	
23	8cu	2cu	0	3.3	3n	3w	3w	„	
24	1cu	5ci	0	2.0	2se	3n	3n	„	
25	2ci	2ci	0	1.3	1n	2n	3n	„	
26	2ci	3ci	0	1.7	1se	1w	3w	slight	
27	1ci	2cu	4cu	2.3	2se	3s	3w	„	
28	10ni	10ni	10ni	10.0	3s	2s	4sw	„	
29	10ni	8ni	2cu	6.7	4sw	5sw	3w	rough	
30	5cu	9cuni	0	4.7	3s	2s	0	mod.	
31	0	10ni	10ni	6.7	6s	7s	6sw	stormy	gale hail, th. st.
				5.09	2.5	2.9	2.7		

8 10 9

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	3	0	1	11	13	2	1	0	0	31
14:30	7	0	1	0	10	3	7	3	0	31
20:30	10	0	1	1	3	2	13	0	1	31
Totals	20	0	3	12	26	7	21	3	1	93

Number of days with rain 13, fog 0, thunderstorms, 1 gale 1.

62 yr. average number of days with rain during month 13.4